

## WE CLAIM:

1. Scleral expansion segment of the type consisting of an arched rod designed to be placed on the sclera perpendicular to the ciliary body, characterized in that the free ends of said rod have a spatula shape wider than the diameter of said bridge, so as to constitute wide support bases.

2. Segment according to Claim 1, characterized in that the bases, seen in longitudinal section, have a radius of curvature  $R1$  corresponding to that of the sclera perpendicular to the ciliary body, while the bridge has a radius of curvature  $R2$  less than  $R1$ .

3. Segment according to Claim 2, characterized in that it is made in at least two parts interlocking with each other.

4. Segment according to Claim 3, characterized in that it consists, on one side, of a bridge, one end of which is integral with a base, and, on the other, of a removable base, and in that complementary means of attachment are placed between the free end of the bridge and the removable base.

5. Segment according to Claim 4, characterized in that the means of attachment carried by the end of the bridge is harpoon-shaped, while the means of attachment carried by the free base is a female cavity matching said harpoon, means being provided to prevent any rotation of the free base relative to the bridge.

6. Segment according to Claim 4, characterized in that the means of attachment of the free base on the end of the bridge consist of a hole cooperating with a

boss, said means being placed on the top of the free base and on the bottom of the free end of the bridge.

7. Segment according to Claim 6, characterized in that the bases are situated on both sides of the median longitudinal axis of the segment.

8. Segment according to Claim 5, characterized in that the part of the bases situated on the median longitudinal axis of the segment presents a concavity directed downward crosswise to said axis.

9. Segment according to Claim 8, characterized in that the bridge presents in section a transverse concavity directed downward.

10. Segment according to Claim 9, characterized in that it presents a multitude of perforations.

11. Segment according to Claim 10, characterized in that it is coated with a biocompatible synthetic material with porous surface.

12. Segment according to Claim 11, characterized in that it consists of a core of deformable material with shape memory, sunk in a layer of soft material.

13. Segment according to Claim 12, characterized in that the core consists of an injectable product.

14. Segment according to Claim 13, characterized in that it has an internal canal intended for placement of a core, the nature and strength of which can be chosen in order to adjust the effect of the scleral expansion segment.